U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Anchor Metal Finishing - Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: **POLREP #5**
Final
Anchor Metal Finishing
B5SZ
Schiller Park, IL
Latitude: 41.9487379 Longitude: -87.8605867

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From: Bradley Benning, OSC
Date: 1/24/2011
Reporting Period: 1/7/2011 to 1/24/2011

1. Introduction

1.1 Background

Site Number:	B5SZ	**Contract Number:**	302-81
D.O. Number:	0059	**Action Memo Date:**	6/24/2010
Response Authority:	CERCLA	**Response Type:**	Time-Critical
Response Lead:	EPA	**Incident Category:**	Removal Action
NPL Status:	Non NPL	**Operable Unit:**	
Mobilization Date:	11/30/2010	**Start Date:**	12/2/2010
Demob Date:	1/26/2011	**Completion Date:**	1/24/2011
CERCLIS ID:	ILN000510404	**RCRIS ID:**	
ERNS No.:		**State Notification:**	0312850019
FPN#:		**Reimbursable Account #:**	

1.1.1 Incident Category

Time-Critical Removal Action

1.1.2 Site Description

The Anchor Metal Finishing Site is located at 9355 Bernice Avenue in Schiller Park, Illinois. The meridian coordinates for the Site are latitude 41° 56' 53.86" North and longitude 87° 51' 40.27" West. The Site contains a one-story brick building with an area of approximately 10,000 square feet (ft^) that includes a small metal loft, an office in the northeast corner, and a partially walled workshop in the middle of the building's main floor. The building has a concrete floor except for a gravel area along the south wall. A gravel parking area is located north and east of the building. The gravel parking area occupies approximately 26,000 ft^2.

The Site is located in an industrial park area bordered by commercial trucking businesses to the east and south and industrial businesses to the north and west. Residences are located within 0.20 mile southwest and 0.20 mile north and northeast of the Site. Several schools and a hospital are located near the Site, including East Leyden High School, Lincoln Middle School, a daycare center, and Animal Care

Hospital. The Des Plaines River is located 0.30 mile east of the Site.

Anchor Metal Finishing, Inc. was a black oxide finisher that used chemical conversion on steel, a process that did not involve electroplating. Before Anchor Metal Finishing, Inc., Royal Metal Finishers conducted finishing operations at the Site. Royal Metal Finishers conducted two primary on-site operations: zinc plating on carbon steel and black oxidizing of steel. Royal Metal Finishers also conducted smaller operations for black oxidizing of stainless steel and copper plating on carbon steel. Process wastes generated by Royal Metal Finishers included filter press wastes, zinc bath sludge, iron oxide sludge, copper bath sludge, and zinc plating cleaner sludge. Royal Metal Finishers ceased operations at the Site in the late 1980s, around the time when Anchor Metal Finishing began renting space in the Site building. Anchor Metal Finishing, Inc operated at the Site from the late 1980s until January 2008. The Elite Sewer Company is presently operating as a business on the property. Elite Sewer uses the building for storage and occupies the building office. Elite Sewer also utilizes the property parking lot.

1.1.2.1 Location

The Anchor Metal Finishing Site is located at 9355 Bernice Avenue in Schiller Park, Illinois. The meridian coordinates for the Site are latitude 41° 56' 53.86" North and longitude 87° 51' 40.27" West.

1.1.2.2 Description of Threat

U.S. EPA conducted a Site Assessment at the Site on October 15, 2009. The on-site building was found to be in general disrepair. The Village of Schiller Park placed a "No Occupancy" sign on the front door of the building. It was raining during the site assessment, and the roof was leaking in multiple places where it was torn off during high winds. The main floor of the building contained approximately 125 55-gallon drums, including unmarked containers, drums labeled "Muriatic Acid," and a drum labeled "Hazardous Waste." Other waste material observed included 22 1-cubic-yard (yd^3) cardboard boxes of sludge; an in-ground vat running along the south wall containing approximately 5,400 gallons of liquid with 4 inches of sludge at the bottom; a sump in the northwest corner; and 28 partially filled 5-gallon pails. Rainwater was observed pooling near the open sludge boxes. The loft area contained approximately 75 55-gallon half-filled drums of sludge and several open drums of unknown waste that had formed crystals around the tops of the drums. Many of the drums both on the main floor and in the loft were filled with unknown contents at or above the drums' capacities. Several of the drum storage areas had inadequate aisle space, making it difficult to inspect the condition of some drums. Most of the drums were open and stored on pallets.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Corrosive materials were identified in open drums at the Site. The pH of several of the liquid waste samples (WL03, WL03D, and WL04) was 14. Liquid waste sample WL05 had a pH of 1. In addition, solid/sludge same WS07 had a pH of greater than 12.5. These samples meet th4 definition of hazardous waste characteristic of

corrosivity according to 40 CFk 261.22. In addition, the building roof was leaking in several areas. Because many of the drums and containers are open, materials could be released if precipitation leaking through the roof overfills the containers and drums and they discharge to the gravel area, sump, or any openings in the building. High concentrations of chromium were detected in the solid/sludge waste sample from WS04 (1800 mg/kg) and'the SS03 soil sample (2200 mg/kg). The WS04 sampling location is near the north side of the building, and contamination could migrate out of the building during periods of precipitation. In addition, sludge waste from the deteriorated 1-yd sludge box6s could migrate out of the building and onto the Site property. The removal action level (RAL) for total chromium in an industrial setting is 154,000 mg/kg.

A high concentration of chromium was detected in the soil sample SS03 (2200 mg/kg). A high concentration of benzo(a)pyrene was detected in soil samples SS01 (793 µg/kg) SS02 (822 µg/kg): These sampling locations are outside the north and south sides of the building, and contamination could migrate offsite during periods of precipitation.

The Site contains approximately 200 open 55-gallon drums, 28 partially filled 5-gallon pails, 22 1-yd^3 sludge boxes, a sump, and an in-ground vat. Materials identified in drums at the Site were characterized as hazardous waste for corrosivity as defined in 40 CFR 261, and materials in the sludge boxes contained high levels of chromium. In addition, the building roof was leaking in several areas. Because many of the drums and containers are open, materials could be released if precipitation leaking through the roof overfills the containers and the drums and they discharge to the gravel areas, sump, or other openings in the building.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The conditions at the Anchor Metal Finishing Site present an imminent and substantial endangerment to the public health, welfare, and the environment and meet the criteria for a time-critical removal action provided for in Section 300.415 (b)(2) of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), as amended, 40 C.F.R. Part 300.

12.1.2 Response Actions to Date

Continued emptying drums of sludge and consolidating partial drums.
Water in the floor pit was treated with carbon, filtered and discharged into the sanitary system.
The final roll-offs of plating solids and crushed drums were shipped for disposal.
Tanker truck removed approximately 3500 gallons of base liquids from drums.
Final mixed load of drums were removed, which completed disposal of all waste streams.
The facility loft and floor were steam cleaned.

The floor pit was fill with crushed rock by the building owner.
Demobilization of personnel and equipment were completed by 1/26/2011.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)
For administrative purposes, information concerning the enforcement strategy for this site is contained in the Enforcement Confidential Addendum.

2.1.4 Progress Metrics

All waste streams have been removed from the site as of 1/24/2011.

Waste Stream	*Medium*	*Quantity*	*Manifest #*	*Treatmen*
RCRA Empty Drums/Containers# 110183IL	Solid	54 yd^3 (12 tons)	00004,0005,0008	None
Plating Solids Profile # 110186IL	Solid	84 yd^3 (63 tons)	0001,0002,0003,00006,0007	Drying Agent
Base Liquid #A113156EIL	Liquid	3500 gal.	008002229	chemical
Flammble Liquids (D001) #482911	Liquid	10 drums (550 gal.)	007745126	Reuse
Base Solids (D002) #482906	Solids	17 drums (1295 gal.)	007745126	Chemical
Oil #482900	Liquid	6 drums (330 gal.)	007745126	Reuse
Muriatic Acid (D002) #482910	Liquid	2 drums (110 gal.)	007745126	Chemical

2.2 Planning Section

2.2.1 Anticipated Activities

Demobilize all remaining equipment, complete all necessary reporting.

2.2.1.1 Planned Response Activities
Dismantle and decontaminate process equipment, tanks/vats, associated

piping, and building components associated with the product process area, as necessary;
Consolidate and package all hazardous substances, pollutants and contaminants for transportation and off-site disposal;
Investigate the potential for soil and building wall/floor contamination on the property;
Properly address any additional hazardous waste and/or materials identified during the removal action.
Transport and dispose of all characterized or identified hazardous substances, pollutants, wastes, or contaminants that pose a substantial threat of release at a RCRA/CERCLA-approved disposal facility in accordance with U.S. EPA's Off-Site Rule (40 CFR § 300.440); and
Take any other response actions to address any release or threatened release of a hazardous substance, pollutant or contaminant that the EPA OSC determines may pose an imminent and substantial endangerment to the public health or the environment.

2.2.1.2 Next Steps

Complete OSC Report, review cost recovery options with ORC.

2.2.2 Issues

There were no known community or congressional issues concerning this site.

2.3 Logistics Section

All equipment and personnel are demobed from site.

2.4 Finance Section

2.4.1 Narrative

Task Order 0059, with an original ceiling of $200,000.

An ammendment increase of $30,000 was added.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaini
Extramural Costs				
ERRS - Cleanup Contractor	$230,000.00	$210,000.00	$20,000.00	8.7
TAT/START	$25,000.00	$24,100.00	$900.00	3.6
Intramural Costs				

Total Site Costs	$255,000.00	$234,100.00	$20,900.00	8.2

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time written. The OSC does not necessarily receive specific figures on final payments made to any contrac financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting pro does not necessarily represent an exact monetary figure which the government may include in any cla recovery.

2.5 Safety Officer

Health and Safety Plan completed. No safety related issues occurred during the removal action.

2.6 Liaison Officer

Local Fire Dept. has been notified of the removal start and completion.

2.7 Information Officer

2.7.1 Public Information Officer

PIO has not been assigned to this site.

2.7.2 Community Involvement Coordinator

Site is located in an industrial park, no known community issues, CIC has not been assigned.

3. Participating Entities

3.1 Unified Command

USEPA Fund-Lead Removal Action.

3.2 Cooperating and Assisting Agencies

Village of Schiller Park
Schiller Park Police and Fire Departments
Illinois EPA

4. Personnel On Site

EPA OSC - 1
Weston START - 0
EQM - 4

5. Definition of Terms

ft^2 Square foot
IEPA Illinois Environmental Protection Agency
MEK Methyl ethyl ketone
mg/kg Milligram per kilogram
mg/L Milligram per liter
NCP National Oil and Hazardous Substances Pollution Contingency Plan
OSC On-Scene Coordinator
PCB Polychlorinated biphenyl
PPE Personal protective equipment
START Superfund Technical Assessment and Response Team
SU Standard unit
SVOC Semivolatile organic compound
T&D Transportation and Disposal
TAL Target Analyte List
TCL Target Compound List
TCLP Toxicity characteristic leaching procedure
TDD Technical Direction Document
U.S. EPA United States Environmental Protection Agency
VOC Volatile organic compound
WESTON Weston Solutions, Inc.
yd^3 Cubic yard

6. Additional sources of information

6.1 Internet location of additional information/reports

www.epaosc.org/anchormetal

6.2 Reporting Schedule

This is the Final Polrep, the OSC Report is scheduled for completion within four weeks.

7. Situational Reference Materials

Located on EPA OSC website under document link for this site.